



**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/CA 03/02020

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>					
IPC 7 A23J1/14 A23J3/34 A23L1/305 C07K5/06 C07K5/08 A61K38/55					
According to International Patent Classification (IPC) or to both national classification and IPC					
<b>B. FIELDS SEARCHED</b>					
Minimum documentation searched (classification system followed by classification symbols)					
IPC 7 A23J A23L C07K A61K					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)					
WPI Data, EPO-Internal, PAJ, EMBASE, FSTA, BIOSIS, CHEM ABS Data					
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>					
Category °	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
X	<p>DATABASE WPI            Section Ch, Week 199408            Derwent Publications Ltd., London, GB;            Class B04, AN 1994-061999            XP002276600            &amp; JP 06 016568 A (CHIBA SEIHUN KK),            25 January 1994 (1994-01-25)            abstract</p> <p>---</p> <p>-/-</p>				1,2,7,8, 10-14, 18,19
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.			<input checked="" type="checkbox"/> Patent family members are listed in annex.		
<b>* Special categories of cited documents :</b> <ul style="list-style-type: none"> <li>"A" document defining the general state of the art which is not considered to be of particular relevance</li> <li>"E" earlier document but published on or after the international filing date</li> <li>"L" document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</li> <li>"O" document referring to an oral disclosure, use, exhibition or other means</li> <li>"P" document published prior to the international filing date but later than the priority date claimed</li> </ul>					
"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.			"&" document member of the same patent family		
Date of the actual completion of the international search			Date of mailing of the international search report		
8 April 2004			23/04/2004		
<b>Name and mailing address of the ISA</b> European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016			<b>Authorized officer</b>  Smeets, D		

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International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ETO Y ET AL: "ANGIOTENSIN I CONVERTING ENZYME-INHIBITORY DIPEPTIDES IN AN ALKALINE PROTEASE HYDROLYSATE OF WHEY PROTEIN" NIPPON EIYO SHOKURYO GAKKAISHI - JOURNAL OF JAPANESE SOCIETY OF NUTRITION AND FOOD SCIENCE, TOKYO, JP, vol. 51, no. 6, 1998, pages 355-359, XP008003054 ISSN: 0287-3516 abstract	31-40, 42-45
X	FLYNN G A ET AL: "APPLICATION OF A CONFORMATIONALLY RESTRICTED PHE-LEU DIPEPTIDE MIMETIC TO THE DESIGN OF A COMBINED INHIBITOR OF ANGIOTENSIN I-CONVERTING ENZYME AND NEUTRAL ENDOPEPTIDASE 24.11" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 36, no. 16, 6 August 1993 (1993-08-06), pages 2420-2423, XP000749702 ISSN: 0022-2623 the whole document	31-40, 42-45
X	US 4 739 076 A (SOUTHWICK PHILIP L) 19 April 1988 (1988-04-19) column 5 -column 6	42
A	PATENT ABSTRACTS OF JAPAN vol. 017, no. 205 (C-1051), 22 April 1993 (1993-04-22) & JP 04 349893 A (NISSHIN FLOUR MILLING CO LTD), 4 December 1992 (1992-12-04) abstract	
A	US 6 232 438 B1 (AHN CHANG WON ET AL) 15 May 2001 (2001-05-15) the whole document	

# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: **43-45**  
because they relate to subject matter not required to be searched by this Authority, namely:  
**see FURTHER INFORMATION sheet PCT/ISA/210**
2.  Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

**see additional sheet**

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-21, 31

A process for preparing an ACE inhibitory peptide-containing hydrolysate comprising contacting an oil-free seed meal with a solvent.

2. Claims: 22-30, 32, 33,

A process for preparing an ACE inhibitory peptide-containing hydrolysate from flax or canola.

3. Claim : 41

A peptide of the formula Val-Ser-Val

4. Claim : 42

A peptide of the formula Phe-Leu

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 43-45 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Continuation of Box I.1

Claims Nos.: 43-45

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/02020

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 6016568	A	25-01-1994	NONE		
US 4739076	A	19-04-1988	NONE		
JP 04349893	A	04-12-1992	JP	3088491 B2	18-09-2000
US 6232438	B1	15-05-2001	KR DE DE EP JP WO	156678 B1 69720957 D1 69720957 T2 0873404 A1 2000505074 T 9725418 A1	15-10-1998 22-05-2003 29-01-2004 28-10-1998 25-04-2000 17-07-1997